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## About PPP Half Bridge Mode

When the PPP Half Bridge is enabled the AMX-64 becomes invisible. The DHCP server will duplicate the WAN IP address from the ISP to the local client PC. Only one PC is able to access the Internet using half bridge mode.

Half bridge mode can only be used when a single IP address has been assigned by the ISP, it is not suitable for services that provide multiple IP addresses. Half bridge mode is used when the use of NAT or NAPT is not desired and there is a single computer attached to the AMX-64 ADSL Gateway.

## When to Use Half Bridge Mode

When using a separate firewall that will be protecting the network, half bridge mode will allow the firewall to appear on the internet using the publicly accessible IP address assigned by the ISP. This configuration will allow the dedicated firewall to have full control of the inbound and outbound traffic and is the intended purpose for this mode.

Some applications that embed the IP address of the computer in the data are not compatible with NAT or NAPT and so the computer requires a real public IP address. However the number of applications that are not compatible with NAT/NAPT are reducing as developers address the issues. Before deciding to use half bridge mode please check to see if the application can be made to work using the virtual server port forwarding feature on the AMX-64. Using NAT/NAPT is preferable as it provides the first line of defence against attack from hackers/crackers and allows the connection of more than one computer.

## Security Consideration

Remember that when not using NAT/NAPT the computer system is more vulnerable to attack from the internet so extra consideration should be given to security. A firewall and up-to-date anti virus software should be considered a minimum requirement. Also remember to check your operating system and software regularly for security updates and apply them as soon as possible.

## Configuration

The AMX-64 comes pre-configured with all the settings to operate using NAPT in the UK when shipped from Adsl Nation. Assuming these settings have not been changed then the configuration is simple. If the settings have been changed please refer to supplied instructions for the correct configuration. Login to the web configuration page using the admin account and set the following...

LAN Configuration - DHCP should be switched on, ensure that DHCP address pool selection is set to System Allocated and set User Mode to Single User. Click submit to set changes.

Miscellaneous Configuration - Switch on Half bridge mode on this page and click submit to set changes.

WAN Configuration - Check that Encapsulation is set to PPPoA VC-Mux as under certain circumstances it may change. If it has changed set it back to PPPoA VC-Mux and click submit.

Now save settings & reboot the router. All other settings should remain the same and the router can configuration can be accessed using the default address <http://10.0.0.2> in the browser.

**Polite Request.** In order to ensure that the most up-to-date version of this document is always used please link to <http://www.adslnation.com> rather than making copies available from another server

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